Contents

NUMBER 1, JANUARY/FEBRUARY

1 The production of ventricular arrhythmias in the guinea-pig isolated heart using hypoxic perfusion fluids containing adrenaline
S. Dai

11 The effects of derangement of cell membrane structure and inhibitors on transferrin and iron uptake by reticulocytes
T. T. Loh

21 Direct action of 4-aminopyridine on the contractility of a fast-contracting muscle in the cat
S. Agoston, W. C. Bowman, M. C. Houwerjtes, I. W. Rodger and A. O. Savage

35 Further comparison of the effects of physostigmine and neostigmine on frog neuromuscular transmission
M. T. Alderdice

45 Uptake of 1:2-^{14}C-choline by the guinea-pig lung *in vitro*: and the effects of *p*-terphenyl hemicholinium-3
J. E. Gardiner and H. S. Lee

53 Estimation of lecithin in rabbit tissues
J. E. Gardiner and H. S. Lee

57 Static versus dynamic techniques for characterizing the catorid sinus baroreceptor reflex in conscious rabbits
I. B. Faris, G. G. Jamieson and J. Ludbrook

69 The effect of chlorpromazine pretreatment on the narcotic antagonist potency of naloxone in mice
C. L. Wong, M. K. Wai and M. B. Roberts

77 Characterization and location of [^{3}H]-clonidine binding in membranes prepared from guinea-pig spleen
G. A. McPherson and R. J. Summers

Short communications

89 Initiation and inhibition of shivering in the rat: interaction between peripheral and central factors
N. J. Dawson and J. L. Malcolm

95 Inverted response of arginine vasopressin to postural change in patients with essential hypertension
B. Trimarco, M. Volpe, L. Sacca', B. Ricciardeli, B. Ungaro, F. Rengo and M. Condorelli

101 Liposome carrier vehicle for triiodothyronine
M. W. Fountain, V. K. Ganjam and R. D. Schultz

107 The effect of adrenalectomy on the development of morphine tolerance and physical dependence in mice
C. L. Wong and M. K. Wai
113 **Letter to the Editor**
115 **Book Reviews**

NUMBER 2, MARCH/APRIL

119 Effects of urethane-chloralose anaesthesia on respiration in the rat
E. W. Hughes, R. L. Martin-Body, I. H. Sarelius and J. D. Sinclair
129 Pharmacological comparison of human isolated digital arteries and metacarpal veins
M. J. Stevens and R. F. W. Moulds
139 Influence of dietary restriction and protein deficiency on plasma half-life and tissue distribution of tetracycline in rats
T. C. Raghuram, Kamala Krishnaswamy and K. V. Krishna Rao
145 The effects of imidazole on contractility and cyclic AMP levels of guinea-pig tracheal smooth muscle
B. R. Creese and M. A. Denborough
157 The affinity of 17α-hydroxyprogesterone and 17α, 20α-dihydroxyprogesterone for classical mineralocorticoid or glucocorticoid receptors
Aldona Butkus, Mario Congui, Bruce A. Scoggins and John P. Coghlan
165 Effects of verapamil on pancreatic exocrine secretion induced by dopamine, secretin and pancreozymin in the dog
K. Iwatsuki, K. Ikeda and S. Chiba
173 Bioavailability of valproate after gastric and direct intestinal administration in rats
N. D. Yeomans, F. J. E. Vajda and J. Baldas
179 Sulphonamides in buffaloes: effect on certain blood constituents and serum enzymes
A. Y. I. El-Gendi. S. A. Youssef, M. Atef, M. G. A. El-Sayed and S. Abdel Aziz
185 The effects of an histamine H_2-receptor agonist, impromidine (SK & F 92676), on the general and cardiac haemodynamics of the intact dog
G. M. Maxwell, D. Ness and V. Rencis
193 Contribution of the sympathetic nervous system to the centrally-induced pressor action of angiotensin II in rats
J. F. E. Mann, W. Rascher, A. Schömig, T. Buu, O. Kuchel, R. Boucher and J. Genest
203 Methylaplysinopsin: a natural product of marine origin with effects on seretonergic neurotransmission
J. Baird-Lambert, P. A. Davis and K. M. Taylor
213 Effects of low-zinc status and essential fatty acid deficiency on growth and lipid composition of rat brain
A. A. Odutuga
223 **Book Review**

NUMBER 3, MAY/JUNE

225 The protein binding and elimination of methotrexate after intravenous infusions in cancer patients
James W. Paxton

235 AR-L 115 in coronary artery disease: positive inotropic effects and increase of left-ventricular pump function without inducing angina
J. Thormann, M. Schlepper and W. Kramer

Short Communications

247 Genetic analysis of systolic blood pressure in Melbourne families
J. L. Hopper, B. D. Tait, D. N. Propert and J. D. Mathews

253 Metabolism of arachidonic acid in the aorta of spontaneously hypertensive rats
P. Dickens, G. J. Dusting, A. E. Doyle and T. J. Martin

259 Prostaglandins do not mediate renin release during severe reduction of renal blood flow in conscious dogs
W. P. Anderson

265 HLA and hormonal data for identification of heterozygotes in 11β- and 17α-hydroxylase deficiency syndromes
F. Mantero, C. Scaroni, P. Masarotto and C. Venturi Pasini

271 Endogenous and exogenous agonist regulation of responses to β-adrenoceptor stimulation in patients with chronic autonomic failure
A. J. Man in 't Veld and M. A. D. H. Schalekamp

277 Increased sympathetic activity in renovascular hypertension in man
R. D. Gordon, A. W. Bachmann, R. V. Jackson and N. Saar

283 The relationship between urinary kallikrein excretion and mineralocorticoids in the rat
W. R. Adam and B. H. Clappison

287 The effect of sodium intake on blood pressure related to the age of the patients
J. Myers, T. Morgan, S. Waga and K. Manley

291 'Salt sensitivity' of normotensives: interactions between changes in red blood cell ^{22}Na efflux rate constant, dietary sodium intake and changes in blood pressure
W. R. Fitzgibbon, T. O. Morgan and J. B. Myers

297 Vascular lesions and angiotensin in malignant hypertension in the absence of vasopressin
R. L. Woods, J. M. Abrahams, P, Kincaid-Smith and C. I. Johnston

303 Central α-adrenoceptors and blood pressure regulation in the rat
M. J. Morris and E. A. Woodcock

309 Onset and offset of structural arteriolar changes in DOCA/salt hypertension in the rat
J. H. Vial, A. C. Yong and G. W. Boyd

315 Venous and volume factors in women during and after normotensive pregnancy
S. N. Hunyor, D. M. Saunders, G. R. Bellamy, D. Roffe, E. Harford and A. Helfgott

321 Circadian rhythms of blood pressure and pressor hormones in normal and hypertensive pregnancy
L. J. Beilin, J. Deacon, C. A. Michael, R. Vandongen, C. M. Lalor, A. E. Barden and L. Davidson

327 Vegetarian diet, lifestyle and blood pressure in two religious populations
I. L. Rouse, B. K. Armstrong and L. J. Beilin

331 Neomycin and experimental hypertension
B. W. Ingram and J. W. Funder
335 Effects of central serotonin nerve lesions on blood pressure in normotensive and hypertensive rats
P. R. C. Howe, B. H. Stead, W. Lovenberg and J. P. Chalmers
341 The influence of renal prostaglandins, central nervous system and NaCl on hypertension of Dahl S rats
L. Tobian, M. Ganguli, A. Goto, T. Ikeda, M. A. Johnson and J. Iwai

NUMBER 4, JULY/AUGUST

355 Infrequent response by diabetic rats to insulin-liposomes
Gillian M. Shenfield and J. C. Hill

Review Article

363 Capillary permeability of heterogeneous organs: a parsimonious interpretation of indicator diffusion data
L. Bass and P. J. Robinson
389 Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists, December 1981, Adelaide

NUMBER 5, SEPTEMBER/OCTOBER

485 Pressure-induced changes in coronary flow and volume during reperfusion in canine hearts
G. J. Crystal, H. F. Downey and F. A. Bashour

Short Communications

495 Effects of prostacyclin and prostaglandin E_2 on the secretion of pancreatic juice in the dog
K. Iwatsuki and S. Chiba
499 Central effects of α-adrenoceptors and antagonist drugs on somatically evoked reflexes in cat systemic and hindlimb circulations
R. M. Brazenor and G. A. Bentley
505 Effects of converting enzyme inhibition with captopril on renal function in normal and ACTH treated sheep
J. A. Whitworth et al.
511 Effect of reserpine on relaxant responses of canine femoral arterial strips
C. A. Cauvin, C. J. Devia and P. L. Kirkendol
515 **Letter to Editor**
517 Proceedings of the Australian Society for Medical Research, held in December 1981, Canberra

NUMBER 6, NOVEMBER/DECEMBER

587 Effects of nicardipine on pancreatic exocrine secretion in the dog
K. Iwatsuki, K. Ikeda and S. Chiba

595 The effect of chlorpromazine pretreatment on morphine analgesia and naloxone potency in adrenalectomized mice
C-L. Wong, and M-L. Wai

603 Contractures produced by carbamate anticholinesterases in bovine tracheal smooth muscle
C. T. Kirkpatrick and P. J. Rooney

613 Comparison of the effects of endrallazine, hydrallazine and verapamil on human isolated arteries and veins
S. Lipe and R. F. W. Moulds

621 Duration of action of meclofenamate on haemodynamics in conscious rabbits
R. A. Banks and L. J. Beilin

631 CBF response to L-dopa influenced by peripheral decarboxylase inhibitor and serotonin in conscious SHR-SP, SHR-SR and WK rats
K. Skolasinska, M. Kihara, R. Horie and Y. Yamori

639 Cardiovascular responsiveness to vasoactive agents in rats with obstructive jaundice
J. P. M. Findberg, R. Seidman and O. S. Better

645 Benzyl carbamyl analogue of lignocaine: vasodepressor mechanism of action
Y. L. Chiang, J. J. Freeman, J. W. Sowell, Sr and J. W. Kosh

657 The permeability of collecting ducts to $^{22}Na^+$ and $^{36}Cl^-$ in rat isolated papillae
T. Morgan and C. Ray

Short Communications

665 Cryoactivation fails to augment plasma renin activity in the cat
R. Golin, A. Morganti, I. Busnardo, L. Turolo, A. Stella and A. Zanchetti

671 Further studies on the effect of adenosine cyclic monophosphate derivatives on cell proliferation in the jejunal crypts of rat
P. J. M. Tutton and D. H. Barkla

675 Effect of acute and subacute treatment of clonidine on blood pH, Pco_2 and Po_2 in mice
E. K. Gan and M. Z. Abdul Sattar

679 Captopril potentiates depressor responses to arachidonic acid in the rat
S-C. G. Hui and A. L. A. Boura

685 Blood pressure overshoot under pentobarbitone anaesthesia following a single dose of clonidine in rats
M. Parker, R. Studer, M. Manganel and J. Atkinson

691 **Author index to Volume 9**